

To: Krala, Susan E CIV[Susan.E.Krala@uscg.mil]; Richman, Lance[Richman.Lance@epa.gov]
Cc: Kim and Bill Reich[kreich1803@charter.net]
From: Reich
Sent: Mon 8/10/2015 5:05:24 PM
Subject: Re: Micromix Aqua - Oil Remediation Product
William J. Reich - Mining Services Resume 8-10-15 JDI BioLogic LLP.pdf

Hi Sue,

Okay on the product info. Thanks for copying Lance. I have worked in the hard rock mining industry since 1987; experience includes actual mine operations, along with environmental and engineering consulting. I imagine Lance is on top of things, but if I can assist let me know. Several good friends are well known consulting engineers (mining, civil, geotechs), environmental/natural resource scientists, and metallurgists etc. Several are in Colorado, including the west slope. We've been on the forefront of some issues more than a few times. In fact, I have a call into our chemist right now regarding mine spill remediation. Lance, let me know if I can provide assistance.

Best Regards,

Bill

William J. Reich
Vice President and Chief Scientist
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From: "Krala, Susan E CIV" <Susan.E.Krala@uscg.mil>
Sent: Monday, August 10, 2015 9:17 AM
To: "Reich" <kreich1803@charter.net>; "Richman, Lance" <Richman.Lance@epa.gov>
Subject: RE: Micromix Aqua - Oil Remediation Product

> Bill,
>
> Yes, I did receive all the attachments you sent last week. Good data.
>
> I'm cc-ing Lance Richman at EPA since EPA is leading the incident you
> spoke of. Also, he is hosting the November meeting in Boulder City. He'll
> get back to you about the agenda.
>

> Sincerely,
>
> -- Susan
>
> -----Original Message-----
> From: Reich [mailto:kreich1803@charter.net]
> Sent: Monday, August 10, 2015 9:10 AM
> To: Reich; Krala, Susan E CIV
> Subject: Re: Micromix Aqua - Oil Remediation Product Information
>
> Hi Sue,
>
> Just checking to make sure you received the information I sent last week.
> It was an interesting weekend. Had several phone calls regarding the
> Golden King Mine spill over in Colorado, New Mexico etc. Discussed
> potential treatment options. We are starting a test program with one of
> the large mines here in Nevada to evaluate how one of our products will
> neutralize cyanide process solutions from heap leach facilities. These
> solutions are loaded with heavy metals etc. This same product is being
> used to successfully treat oil field brines in Texas. The treated
> solution (water) meets the Texas water quality standards for use as
> "agriculture irrigation water". Oil field brines are generally much
> nastier than heap leach/cyanide process solutions. We'll wait to see the
> test program results, but the metallurgist and chemists are anticipating
> positive results from the upcoming test program.
>
> Regarding the Golden King Mine spill, that is going to be a "treat at the
> source", and look at remediating the river beds and banks, once the spill
> has been contained and the plume has passed on. The plume will rapidly
> dilute/dissipate once it reaches Lake Powell, but there still will be
> impacts where the river joins the lake. Regarding the Animas and San Juan
> Rivers, will have to see what testing shows. There will be impacts, short
> and long-term to aquatic life due to the acidic nature of the mine water,
> the levels of heavy metals, and also due to depleted oxygen from the
> sediments. Never good when a release like this occurs.
>
> Let's keep in touch. I look forward Hi Sue,
>
> Best Regards,
>
> Bill
>
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> From: Reich <mailto:kreich1803@charter.net>
> Sent: Wednesday, August 05, 2015 11:29 AM
> To: Susan E CIV Krala <mailto:Susan.E.Krala@uscg.mil>
> Subject: Micromix Aqua - Oil Remediation Product Information

>
>

> Hi Susan,

>

> Attached is basic information for our oil remediation product, Micromix Aqua, along with a general Micromix product overview sheet. We are in the process of updating the JDI product information sheets, however the attached versions are valid.

>

> Micromix Aqua is an interesting product; it is used extensively in Europe, the Middle East and South Africa for oil remediation programs. We are looking to expand its use in the US.

>

> As I mentioned during our call this morning, our associate Israeli company, Terra Green, is currently coordinating remediation activities for the Eilat Ashkelon crude oil pipeline spill in southern Israel which occurred on December 4, 2014. These remediation activities are located within the Evrona Nature Reserve, which is located approximately 12 miles north of the Gulf of Aqaba. The Reserve is an environmentally sensitive area. We used two products, Micromix Aqua, and TM-1200 (which is a blend of a hyper wetting agent and Micromix Aqua - the hyper wetting agent allowed the Micromix Aqua to penetrate through the spilled crude and desert soils), to complete a test remediation program within the Reserve. The test remediation program results were exceptional, and the Israeli Ministry of Environmental Protection requested a proposal from Terra Green to complete the entire remediation program for the Reserve.

>

> I will forward the TM-1200 product information to you; as I currently do not have that saved on my computer. Check out the Evrona Nature Reserve oil spill on the internet; it is very interesting. I will see about providing test program remediation to you for review. An interesting item. Here in the US we deal with threatened, endangered and sensitive vegetation and wildlife species. In the Evrona Nature Reserve, we deal with "biblical vegetation and wildlife species".

>

> Standby for additional information as I pull it together. I look forward to meeting you soon.

>

> Best Regards,

>

> Bill

>

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